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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/724,879      12/02/2003      Liang-Jie Zhang      00280762AA      1650

30743      7590      09/20/2007  
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EXAMINER
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NGUYEN, VAN H

ART UNIT	PAPER NUMBER
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2194

MAIL DATE	DELIVERY MODE
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09/20/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

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<b>Office Action Summary</b>	<b>Application No.</b> 10/724,879	<b>Applicant(s)</b> ZHANG ET AL.	
	<b>Examiner</b> VAN H. NGUYEN	<b>Art Unit</b> 2194	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 July 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 10-20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

1. This communication is responsive to the Requirement for Restriction filed 07/09/2007.

Claims 1-20 are pending. Claims 1-9 (Group I) have been elected with traverse.

Applicant is required to cancel non-elected claims 10-20 in the next response to this office action.

### **Specification**

2. Examiner requests that Applicant review the application carefully for informalities including typographical errors.

#### **Applicant should update the related Application information**

Cross-referenced Application information must accurately reflect the relevant status of related cases. Applicant should review the related cases and provide appropriate amendments to reflect the current information on each case with relevancy to the instant Application.

### **Election/Restrictions**

3. Applicant's election with traverse of Group I (claims 1-9) in the reply filed 07/09/2007 is acknowledged. The traversal is on the ground(s) that the claims in the groups are not significantly different. This is not found persuasive because of the following.

It is the examiner's opinion that there are significant differences between claims 1, 10, 16, 12 and 15. Claim 1 deals with event handling (*i.e. parsing events...coordinating with an exception handle*). On the other hand, Claims 10 and 16 deal with annotation control (*i.e. retrieving, adding, removing...annotations*); Claim 12 deals with authorization (*i.e. an access control...security checking*); and Claim 15 deals with process management (*i.e. executing, managing, integrating...on demand business process integration*).

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for one group is not required for the other groups, restriction for examination purposes as indicated is proper.

The requirement is still deemed proper and is therefore made FINAL.

### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-9 are rejected under 35 U.S.C. 102(e) as being anticipated by **Schmidt et al.** (US 20040254945 A1).

**As to claim 1:**

Schmidt teaches method for executing integration activity chain for on demand business process (*business process*) integration (*integration*) (*see the Abstract and ¶¶ 0006-0008*) comprising the steps of:

- receiving integration activity's properties for execution from an event bus (*see the integration and business process discussion; ¶¶ 0028-0041*);
- parsing events from a received data string; controlling integration activity execution through consulting on demand business collaboration ontology and an access control utility (*a system landscape 200 including an XI 110 for facilitating message-based collaboration among applications. The exchange infrastructure*

*110 includes an integration repository 202, an integration directory 204, a system landscape directory 203, and an integration server 206. The integration repository 202 captures design-time collaboration descriptions of all software components that can communicate via the XI 110. The integration directory 204 captures configuration-specific collaboration descriptions of the system landscape 200 at runtime, which includes accessing actual component installations from the system landscape directory 203 and connectivity descriptions for external components, all of which represents the shared business semantics of the system landscape 200. The integration server 206 uses the shared business semantics at runtime to execute message-based collaboration among the active software components... The integration server 206 includes a runtime engine 214 that provides messaging and business process control at runtime for connecting services and managing the process flow of value chains. The BPM system 299 resides on the integration server 206 below the runtime engine 214. The BPM system 299 includes a business process engine, or "process engine," (not shown) that runs on top of the runtime engine 214 for runtime execution of business process management... The integration server 206 also includes integration services 216 that typically require an application-specific implementation. Like the integration repository 202 and integration directory 204, the integration server 206 is configured for deployment within any existing system infrastructure. The integration server 206 is preferably a dedicated server that applies the shared collaboration knowledge of the integration directory 204*

*of the supported system landscape in a runtime collaboration environment. A runtime workbench 208 allows organizations or users to manage the reliable operation of the XI 110; ¶¶ 0032-0035);*

- *coordinating with an exception handler when there is a business exception which comes from integrated applications (see the exceptions and exception handler; discussion ¶¶ 0112-0113); and*
- *performing integration activity execution by invoking adaptation layers (The runtime engine 214, which exchanges all messages between the various interconnected components, includes two layers: an integration layer 272 and a messaging and transport layer (MTL) 280. .. The integration services 216 in the integration server 206 can support the runtime engine 214. An MTL 280 is also included in each instantiation of the runtime engine 214 in Web applications servers 210, as well as in each adapter 209 of the adapter framework connecting to various software components; ¶¶ 0049-0083).*

**As to claim 2:**

Schmidt teaches the integration activity chain represents a set of activities in a pre-defined manner (*The integration server 206 includes a runtime engine 214 that provides messaging and business process control at runtime for connecting services and managing the process flow of value chains; ¶0031).*

**As to claim 3:**

Schmidt teaches the pre-defined manner is represented in to a work flow document and the said ad-hoc manner is the non-deterministic activities triggered by manually operation or by program code automatically in multi-step manner *(The configuration-specific collaboration descriptions of the integration directory 204 can be generated automatically from content in the integration repository 202 or manually by a user using a graphical user interface. In one implementation, the integration directory 204 is built on a Java platform and its content is represented via XML using open Internet standards. The integration repository 202 can be upgraded without affecting the integration directory 204 or any runtime collaborative processes. The user then decides which changes should be transferred to the integration directory 204, either as predetermined automatic upgrades or manually via graphical tools; ¶¶0040-0045).*

**As to claim 4:**

Schmidt teaches the integration activity chain represents a set of activities in an ad-hoc manner *(The integration server 206 includes a runtime engine 214 that provides messaging and business process control at runtime for connecting services and managing the process flow of value chains; ¶0031).*



**As to claim 5:**

Schmidt teaches the event bus comprises a XML string, plain text, binary data stream, or graphic user interface events (*graphical user interface*; ¶¶ 0039-0042, and 0082).

**As to claim 6:**

Schmidt teaches said integration activity's properties are the integration activity's name, description on the integration activity, scheduled execution script, pre-integration activity, post-integration activity, and execution channel (*The integration repository 202 captures design-time collaboration descriptions of all software components that can communicate via the XI 110. The integration directory 204 captures configuration-specific collaboration descriptions of the system landscape 200 at runtime, which includes accessing actual component installations from the system landscape directory 203 and connectivity descriptions for external components, all of which represents the shared business semantics of the system landscape 200. The integration server 206 uses the shared business semantics at runtime to execute message-based collaboration among the active software components. ..The components 240 represent component descriptions that include information about application components, as well as information relating to their dependencies on each other. In a specific implementation, the component descriptions are based on the standard Common Information Model (CIM) of the Distributed Management Taskforce. Since the integration repository 202 includes design-time information, only component-type information, independent of actual installation, is*

*stored as components 240 in the system landscape directory 203. The component descriptions can be added using an API or interactively using a graphical user interface; ¶¶ 0049-0083).*

**As to claim 7:**

Schmidt teaches said adaptation layers include adaptation components associated with business applications (*The runtime engine 214, which exchanges all messages between the various interconnected components, includes two layers: an integration layer 272 and a messaging and transport layer (MTL) 280. .. The integration services 216 in the integration server 206 can support the runtime engine 214. An MTL 280 is also included in each instantiation of the runtime engine 214 in Web applications servers 210, as well as in each adapter 209 of the adapter framework connecting to various software components; ¶¶ 0049-0083).*

**As to claim 8:**

Schmidt teaches said business applications include Reliable File Transfer Protocol (*business processes that define a message communication protocol between applications in a heterogeneous system landscape. The business process management system and method is optimally implemented in an exchange infrastructure configured to integrate and drive collaboration between various applications in the landscape using open standards and transport protocols such as XML and HTTP... Each of the ICs/ECs 102,*

*104 communicates via messaging with one or more other components according to at least one of a number of communication protocols or standards; ¶¶ 0027-0028).*

**As to claim 9:**

Schmidt teaches said business applications include File Transfer Protocol (*business processes that define a message communication protocol between applications in a heterogeneous system landscape. The business process management system and method is optimally implemented in an exchange infrastructure configured to integrate and drive collaboration between various applications in the landscape using open standards and transport protocols such as XML and HTTP... Each of the ICs/ECs 102, 104 communicates via messaging with one or more other components according to at least one of a number of communication protocols or standards; ¶¶ 0027-0028).*

### **Conclusion**

5. The prior art made of record, see PTO 892, and not relied upon is considered pertinent to applicant's disclosure. Applicant should review these references carefully before responding to this office action.

Art Unit: 2194

### Contact Information

6. Any inquiry or a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: (571) 272-2100.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VAN H. NGUYEN whose telephone number is (571) 272-3765. The examiner can normally be reached on Monday-Thursday from 8:30AM-6:00PM. The examiner can also be reached on alternative Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WILLIAM THOMSON can be reached at (571) 272-3718.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://padirect.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**Any response to this action should be mailed to:**

Commissioner for patents

P O Box 1450

Alexandria, VA 22313-1450



**VAN H. NGUYEN**  
PRIMARY EXAMINER